Programs available for the BLAST search

The NCBI BLAST family of programs includes:

blastp

    compares an amino acid query sequence against a protein sequence database

blastn

    compares a nucleotide query sequence against a nucleotide sequence database

blastx

    compares a nucleotide query sequence translated in all reading frames against a protein sequence database

tblastn

    compares a protein query sequence against a nucleotide sequence database dynamically translated in all reading frames

tblastx

    compares the six-frame translations of a nucleotide query sequence against the six-frame translations of a nucleotide sequence database. Please note that tblastx program cannot be used with the nr database on the BLAST Web page.

4/23/2004

NCBI   BLAST 2 sequences   BLAST Entrez ?

BLAST 2 SEQUENCES RESULTS VERSION BLASTX 2.2.3 [Apr-24-2002]

Matrix BLOSUM62 ▾ gap open: 11   gap extension: 1

x_dropoff: 50   expect: 10.000 wordsize: 3   Filter ☐   Align

Sequence 1 lcl|DEX0150_1   Length 1710
Sequence 2 lcl|US5733748 Fig1 Length 167
No significant similarity was found

4/23/2004

NCBI   BLAST 2 sequences   BLAST Entrez ?

BLAST 2 SEQUENCES RESULTS VERSION BLASTX 2.2.3 [Apr-24-2002]

Matrix BLOSUM62 gap open: 11 gap extension: 1
x_dropoff: 50 expect: 10.000 wordsize: 3 Filter Align

Sequence 1 lcl|DEX0150_1   **Length** 1710
Sequence 2 lcl|US5733748 Fig2 **Length** 235
No significant similarity was found

4/23/2004

NCBI   BLAST 2 sequences   BLAST Entrez ?

BLAST 2 SEQUENCES RESULTS VERSION BLASTX 2.2.3 [Apr-24-2002]

Matrix BLOSUM62 ▾ gap open: 11   gap extension: 1
x_dropoff: 50   expect: 10.000 wordsize: 3   Filter ☐   Align

Sequence 1 lcl|DEX0150_1   **Length** 1710
Sequence 2 lcl|US5733748 Fig4 **Length** 135
No significant similarity was found

4/23/2004

NCBI   BLAST 2 sequences   BLAST Entrez ?

BLAST 2 SEQUENCES RESULTS VERSION BLASTX 2.2.3 [Apr-24-2002]

Matrix BLOSUM62 ▾ gap open: 11   gap extension: 1

x_dropoff: 50   expect: 10.000 wordsize: 3   Filter ☐   Align

Sequence 1 lcl|DEX0150_1   Length 1710

Sequence 2 lcl|US5733748 Fig5 Length 228

No significant similarity was found

4/23/2004

NCBI   BLAST 2 sequences   **BLAST** **Entrez** **?**

BLAST 2 SEQUENCES RESULTS VERSION BLASTX 2.2.3 [Apr-24-2002]

Matrix BLOSUM62 ▼ gap open: 11   gap extension: 1

x_dropoff: 50   expect: 10.000 wordsize: 3   Filter ☐   Align

Sequence 1 lcl|DEX0150_1   **Length** 1710

Sequence 2 lcl|US5733748 Fig6 **Length** 163

No significant similarity was found

4/23/2004

NCBI   BLAST 2 sequences   **BLAST** **Entrez** **?**

BLAST 2 SEQUENCES RESULTS VERSION BLASTX 2.2.3 [Apr-24-2002]

Matrix BLOSUM62 ▾ gap open: 11   gap extension: 1
x_dropoff: 50   expect: 10.000 wordsize: 3   Filter ☐   Align

Sequence 1 lcl|DEX0150_1   **Length** 1710
Sequence 2 lcl|US5733748 Fig8 **Length** 81
No significant similarity was found

4/23/2004

| NCBI | BLAST 2 sequences | BLAST | Entrez | ? |

BLAST 2 SEQUENCES RESULTS VERSION BLASTX 2.2.3 [Apr-24-2002]

Matrix | BLOSUM62 ▾ | gap open: |11| gap extension: |1|
x_dropoff: |50| expect: |10.000| wordsize: |3| Filter ⌐   Align |

Sequence 1 lcl|DEX0150_1   Length 1710
Sequence 2 lcl|US5733748 Fig9 Length 323
No significant similarity was found

4/23/2004

NCBI   BLAST 2 sequences   BLAST Entrez ?

BLAST 2 SEQUENCES RESULTS VERSION BLASTX 2.2.3 [Apr-24-2002]

Matrix BLOSUM62 ∨ gap open: 11   gap extension: 1
x_dropoff: 50   expect: 10.000 wordsize: 3   Filter ⌐   Align

Sequence 1 lcl|DEX0150_1   Length 1710
Sequence 2 lcl|US5733748 Fig10 Length 201
No significant similarity was found

4/23/2004

NCBI   BLAST 2 sequences   BLAST Entrez ?

BLAST 2 SEQUENCES RESULTS VERSION BLASTX 2.2.3 [Apr-24-2002]

Matrix BLOSUM62 ▾ gap open: 11   gap extension: 1
x_dropoff: 50   expect: 10.000 wordsize: 3   Filter ☐   Align

Sequence 1 lcl|DEX0150_1   **Length** 1710
Sequence 2 lcl|US5733748 Fig11 **Length** 156
No significant similarity was found

4/23/2004